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[REDACTED]

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10 August 1964

MEMORANDUM FOR: [REDACTED]

SUBJECT: Terms of Reference for [REDACTED] Experiments

1. As we agreed last Friday, 7 August, both the slippage in the [REDACTED] program and several recent new developments make it imperative that the objectives of this program be re-evaluated and the time schedule reconsidered. The Systems Analysis Staff requirements have remained essentially unchanged since last April's discussions; however, the schedule slippage has serious consequences for a number of related programs. The following is a reinstatement of the SAS requirements along with recommendations for future action.

2. The primary SAS requirement for the data anticipated from the [REDACTED] experiments remains the F program. As you know, a major milestone in that program occurs in January of next year and we are relying on critical information from these experiments to facilitate the systems decisions which must be made at that time. In addition to the F problem area the Director has recently requested the DD/S&T to examine the [REDACTED] targeting problem. One of the essential ingredients of any progress in this area is clearly a quantitative understanding of the relative value of the various photographic modes of the [REDACTED] system. While this activity does not imply any additional experimental effort, it does increase the necessity for timely progress.

3. There are three specific experiments that are of first priority interest to the SAS:

(a) An assessment of the relative value of monoscopic, near vertical photography over the ground resolution range of [REDACTED] measured at 2:1 contrast at the system aperture.

(b) An assessment of the performance improvement afforded by stereo over this range of resolutions.

(c) An assessment of photo interpreter performance at [REDACTED] resolution with 40° and 60° obliquity respectively.

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We also remain interested in the value of color photography and heterogeneous stereo, but with a priority to follow the above items.

4. In line with the above requirements two actions seem imperative:

(a) Revision of the current plan for obtaining reference photography to include stereo and oblique coverage.

(b) Careful review of the program scheduling and level of effort to insure maximum consistency with the urgency of the need for this data.

To this end the SAS is anxious to maintain close working relationships with the key people responsible for the execution of the program - - - particularly during the formative phase of the experiments. A staff member will be charged with liaison responsibility and will provide any substantive support required.

Original signed by:

[Redacted Signature]

SAS/DD/S&T

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